

ABSTRACT

A refrigerator in which a two-stage-compression mode power-variable refrigerant circuit having a freezer cooler and fresh-food cooler is controlled in accordance with information on temperature in the fresh-food compartment. Thus, each of the freezer and fresh-food compartment is properly controlled at a temperature for storing. The refrigerant circuit includes an inverter-driven power-variable compressor having a low-pressure compression element and a high-pressure compression element, a switching valve disposed downstream of a condenser receiving gas refrigerant discharged from the compressor and selecting and controlling channel and flow rate of the refrigerant, and a freezer cooler and a fresh-food cooler, each connected with the switching valve through a pressure reducer. A frequency of the compressor is decided by a temperature in the freezer compartment and its target temperature.